

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,162,364 B2
APPLICATION NO. : 09/801104
DATED : January 9, 2007
INVENTOR(S) : Bähren et al.

Page 1 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page showing an illustrative figure(s) 1 should be deleted and substitute therefore the attached title page consisting of Fig(s). 1

In the Abstract

Line 5, delete "recieves" and insert --receives--
Line 11, delete "recieves" and insert --receives--
Line 13, delete "navigaion" and insert --navigation--

The drawing sheets consisting of Fig(s) 1-2 should be deleted and substitute therefore the attached drawing sheets consisting of Fig(s) 1-2

Column 1

Line 19, delete "vehicle's" and insert --vehicle--
Line 42, after "vehicle" delete "are" and insert --is--

Column 2

Line 6, delete "display," and insert --display--
Line 6, delete "unit," and insert --unit--
Line 14, delete "display" and insert --display--
Line 19, after "generally" insert --is--

Column 5

Line 50, before "test" insert --the--
Line 60, delete "whole"
Line 67, before "new" delete "a"

Column 6

Line 1, delete "stored" and insert --store--
In the claims, claim 1, line 12, before "senses" delete "that"
In the claims, claim 1, line 13, delete "said" and insert --the--
In the claims, claim 1, line 16, delete "said" and insert --the--
In the claims, claim 1, line 17, delete "said" and insert --the--
In the claims, claim 1, line 21, delete "said" and insert --the--
In the claims, claim 1, line 25, delete "said" and insert --the--
In the claims, claim 1, line 26, before "first" delete "said" and insert --the--
In the claims, claim 1, line 26, before "second" delete "said" and insert --the--
In the claims, claim 1, line 27, delete "said" and insert --the--
In the claims, claim 1, line 28, delete "said" and insert --the--
In the claims, claim 1, line 33, delete "said" and insert --the--
In the claims, claim 1, line 34, delete "said" and insert --the--

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 6

In the claims, claim 1, line 35, delete "wherein said" and insert --where the--
In the claims, claim 1, line 37, before "navigation" delete "said" and insert --the--
In the claims, claim 1, line 37, before "second" delete "said" and insert --the--
In the claims, claim 1, line 38, before "data" delete "said" and insert --the--
In the claims, claim 1, line 38, after "to" delete "said" and insert --the--
In the claims, claim 1, line 43, delete "said" and insert --the--
In the claims, claim 2, line 44, delete "wherein said" and insert --where the--
In the claims, claim 3, line 46, delete "wherein said" and insert --where the--
In the claims, claim 3, line 47, delete "said" and insert --the--
In the claims, claim 4, line 49, delete "wherein said" and insert --where the--
In the claims, claim 4, line 50, delete "said" and insert --the--
In the claims, claim 4, line 51, delete "said" and insert --the--
In the claims, claim 4, line 53, before "place" insert --second--
In the claims, claim 5, line 56, delete "wherein said" and insert --where the--
In the claims, claim 5, line 57, delete "said" and insert --the--
In the claims, claim 5, line 58, delete "said" and insert --the--
In the claims, claim 6, line 61, delete "wherein said" and insert --where the--
In the claims, claim 7, line 65, before "senses" delete "that"

Column 7

In the claims, claim 7, line 2, delete "said" and insert --the--
In the claims, claim 7, line 3, delete "said" and insert --the--
In the claims, claim 7, line 7, delete "said received" and insert --the first--
In the claims, claim 7, line 9, delete "said" and insert --the--
In the claims, claim 7, line 10, delete "said" and insert --the--
In the claims, claim 7, line 11, delete "said" and insert --the--
In the claims, claim 7, line 14, after "destination" insert --location--
In the claims, claim 7, line 16, delete "said" and insert --the--
In the claims, claim 8, line 19, delete "wherein said" and insert --where the--
In the claims, claim 8, line 21, before "navigation" delete "said" and insert --the--
In the claims, claim 8, line 21, before "second" delete "said" and insert --the--
In the claims, claim 8, line 22, before "data" delete "said" and insert --the--
In the claims, claim 8, line 22, before "monitor" delete "said" and insert --the--
In the claims, claim 8, line 26, delete "said" and insert --the--
In the claims, claim 9, line 28, delete "wherein said" and insert --where the--
In the claims, claim 10, line 31, delete "wherein said" and insert --where the--

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 8

In the claims, claim 11, line 2, delete "wherein said" and insert --where the--

In the claims, claim 12, line 5, delete "wherein said" and insert --where the--

In the claims, claim 12, line 7, delete "said" and insert --the--

In the claims, claim 12, line 8, before "means" delete "said" and insert --the--

In the claims, claim 12, line 8, before "data" delete "said" and insert --the--

In the claims, claim 13, line 16, delete "said" and insert --the--

In the claims, claim 13, line 20, delete "said" and insert --the--

In the claims, claim 13, line 21, before "first" delete "said" and insert --the--

In the claims, claim 13, line 21, after "signal," delete "said" and insert --the--

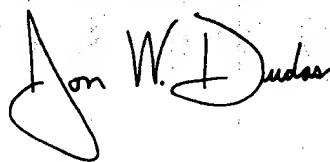
In the claims, claim 13, line 22, after "position" insert --signal--

In the claims, claim 13, line 22, delete "said" and insert --the--

In the claims, claim 13, line 29, delete "said" and insert --the--

Signed and Sealed this

Twenty-seventh Day of March, 2007



JON W. DUDAS
Director of the United States Patent and Trademark Office

(12) **United States Patent**
Bähren et al.

(10) Patent No.: **US 7,162,364 B2**
(45) Date of Patent: **Jan. 9, 2007**

(34) **MOTOR VEHICLE NAVIGATION SYSTEM**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 38 days.

(21) Appl. No.: 09/801,104

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(30) Foreign Application Priority Data

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(51) Int. Cl.
G01C 21/00 (2006.01)

(52) U.S. Cl. 701/207; 701/208; 340/990;
340/995.14; 340/995.19

(58) Field of Classification Search 340/995.14,
340/995.1, 995.11, 995.17, 995.19, 988, 990,
340/995; 73/178 R; 701/207, 201, 208, 211,
701/213

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

4,796,189 A * 1/1989 Nakayama et al. 340/990
4,996,645 A 2/1991 Schneiderberg
Van Der Zee 1/969
5,159,556 A 10/1992 Schorler 15/50
5,627,547 A * 5/1997 Ramaswamy et al. 342/357.08
5,689,252 A 11/1997 Ayaroglu et al. 340/991
5,721,684 A 2/1998 Takata 304/443
5,732,385 A * 3/1998 Nakayama et al. 340/995

5,774,824 A * 6/1998 Siret et al. 340/990
5,774,828 A * 6/1998 Bruts et al. 340/990
5,802,492 A * 9/1998 DeLorme et al. 340/990
5,821,880 A * 10/1998 Marimoto et al. 340/988
5,848,373 A * 12/1998 DeLorme et al. 340/990
5,862,511 A 1/1999 Croyle et al. 7/48
5,918,180 A * 6/1999 Dimino 340/825.3
5,944,768 A * 8/1999 Ito et al. 340/990
6,169,515 B1 * 1/2001 Mannings et al. 342/357.1
6,240,361 B1 * 5/2001 Iso et al. 340/995
6,321,158 B1 * 11/2001 DeLorme et al. 340/995
6,341,254 B1 * 1/2002 Claude et al. 701/208
6,346,938 B1 * 2/2002 Chan et al. 345/419

FOREIGN PATENT DOCUMENTS

EP 0 836 167 A1 4/1998

* cited by examiner

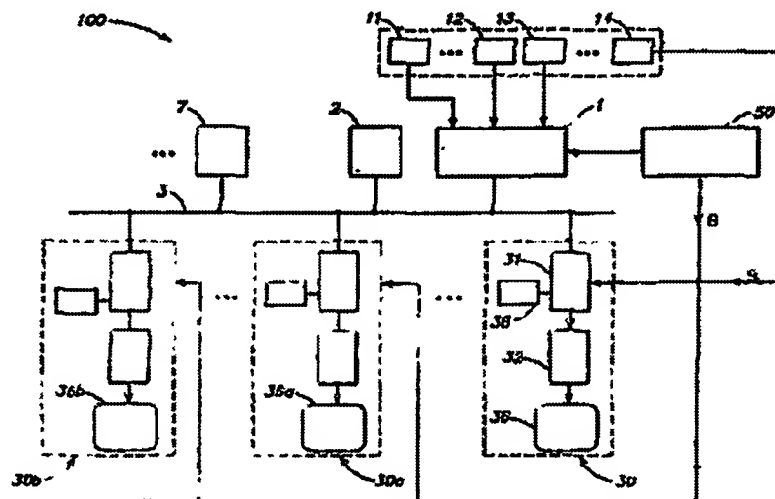
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Kosakowski, P.C.

(57) **ABSTRACT**

A motor vehicle navigation system comprises a position sensor that senses the geographical position of the navigation system and provides a first navigation system position signal indicative thereof. The navigation system system also includes a navigation computing unit that receives the first navigation system position signal and transmits onto a data bus (i) a first position signal indicative of the position of a trip starting location, (ii) a second position signal indicative of a trip destination location and (iii) the first navigation system position signal. A road map memory device includes map data. A second computing unit receives (i) the first position signal, (ii) the second position signal and (iii) the first navigation system position signal and the map data, and generates initial image data including map data indicative of the trip starting location, the trip destination location and the current position of the navigation system, and a display displays an initial image indicative of the initial image data.

13 Claims, 2 Drawing Sheets



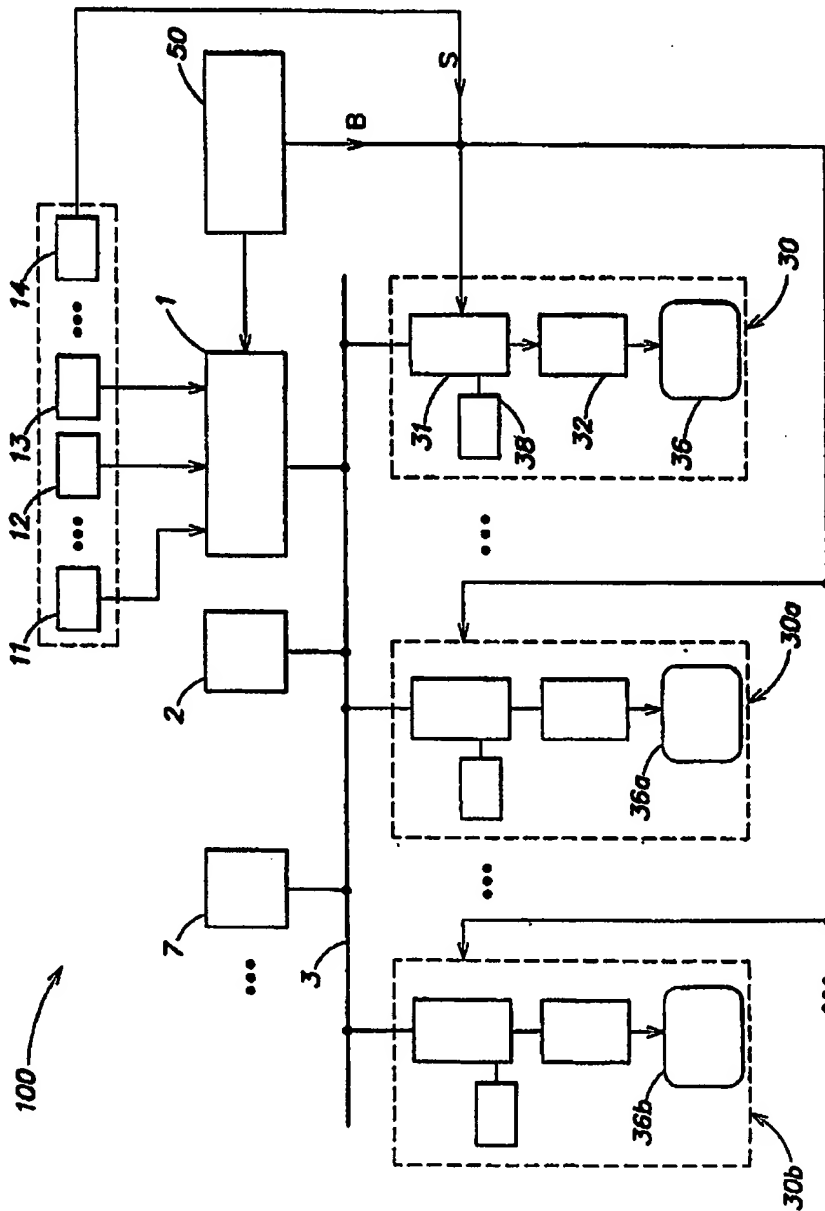


FIG. 1

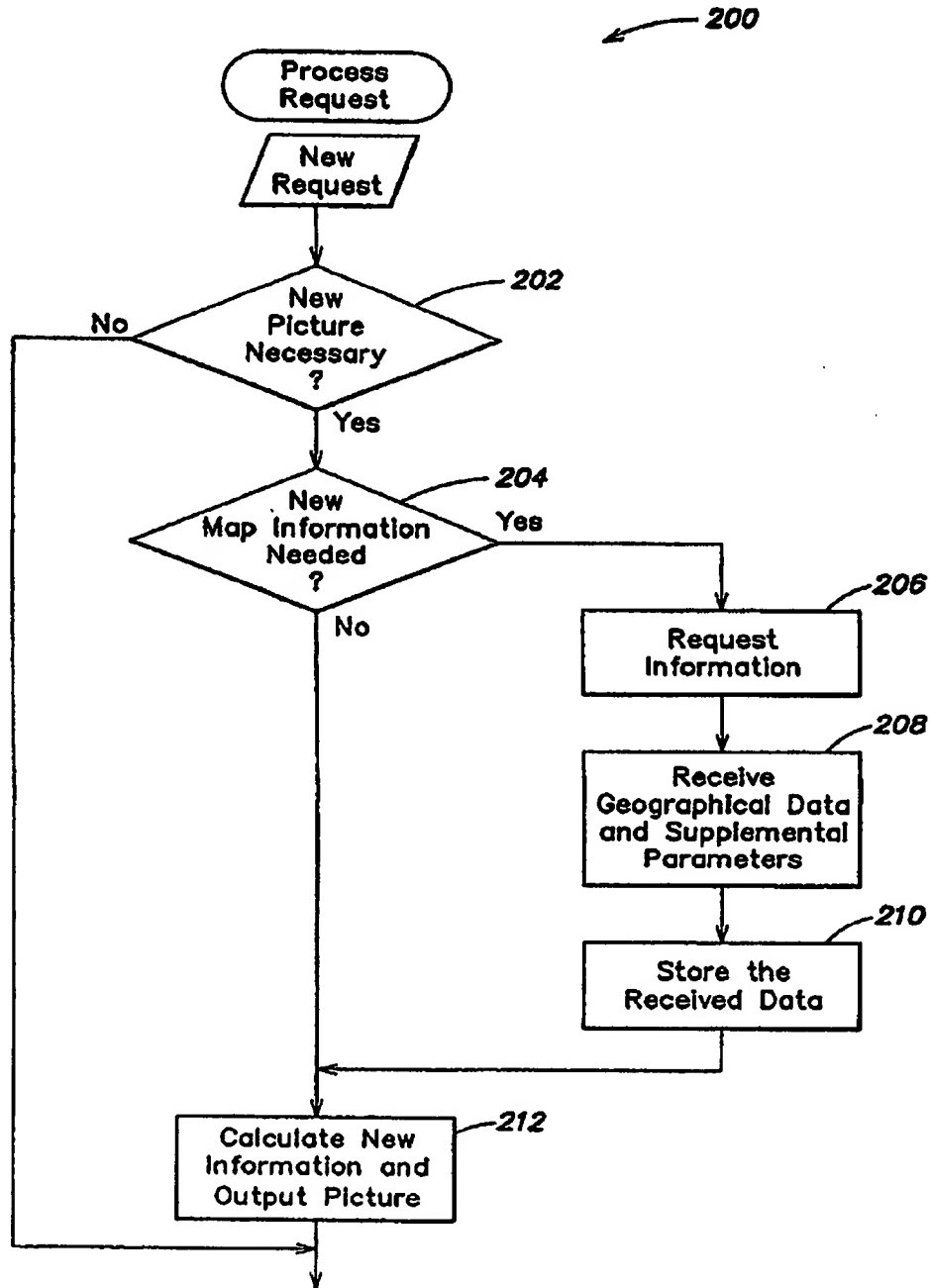


FIG. 2